	Application No.	Applicant(s)
Notice of Allowability	09/158,616	DALAL ET AL.
	Examiner	Art Unit
	John B. Vigushin	2827
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not included
1. This communication is responsive to Amendment filed 25 I	November 2002.	
2. The allowed claim(s) is/are <u>1-5,7,9,10,12,15-23,26-33,35 and 54.</u>		
3. 🔀 The drawings filed on <u>30 May 2001</u> are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the: 		
1. Certified copies of the priority documents have been received.		
Certified copies of the priority documents have been received in Application No		
3. 🗌 Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
5. Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).		
 (a) ☐ The translation of the foreign language provisional application has been received. 6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 		
o / toknowledgment is made of a claim for domestic priority under 35 0.5.0. 98 120 and/or 121.		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of t	this communication to file a reply co his application. THIS THREE-MON	mplying with the requirements noted ITH PERIOD IS NOT EXTENDABLE.
7. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives reasonable.	tted. Note the attached EXAMINER on(s) why the oath or declaration is a	S AMENDMENT or NOTICE OF deficient.
 8. CORRECTED DRAWINGS must be submitted. (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No. (b) including changes required by the proposed drawing composed including changes required by the attached Examiner's 	prrection filed, which has be	en approved by the Examiner.
Identifying indicia such as the application number (see 37 CFR 1.8 of each sheet. The drawings should be filed as a separate paper w	:4(c)) should be written on the drawin vith a transmittal letter addressed to t	gs in the top margin (not the back) he Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the depos attached Examiner's comment regarding REQUIREMENT FOR THE	it of BIOLOGICAL MATERIAL m IE DEPOSIT OF BIOLOGICAL MAT	ust be submitted. Note the 'ERIAL.
Attachment(s)		
 1 Notice of References Cited (PTO-892) 3 Notice of Draftperson's Patent Drawing Review (PTO-948) 5 Information Disclosure Statements (PTO-1449), Paper No 7 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	4∏ Interview Summa 6⊠ Examiner's Amen	Patent Application (PTO-152) ry (PTO-413), Paper No dment/Comment ment of Reasons for Allowance

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DETAILED ACTION

1. The present Office Action is responsive to Applicant's Amendment filed November 25, 2002. The Examiner acknowledges the amendments to Claims 1, 20 and 35, the cancellation of Claims 6, 13, 14, 24 and 25, and the addition of new Claim 54. Accordingly, Claims 1-5, 7, 9, 10, 12, 15-23, 26-33, 35 and 54 remain pending in the instant amended Application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In Claim 1 (4th amendment), line 11: "interposed" has been changed to — interposer—.

Allowable Subject Matter

- 3. Claims 1-5, 7, 9, 10, 12, 15-23, 26-33, 35 and 54 have been allowed.
- 4. The following is an examiner's statement of reasons for allowance:

As to Claims 1-5, 7, 9, 10, 12, 15-19, patentability resides in the limitation wherein the first circuitized card and interposer are electrically and physically connected through a ball grid array and the interposer and the second circuitized card are

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electrically and physically connected through a ball grid array, in combination with the other limitations of base Claim 1.

As to Claims 20-23, 26-33 and 35, patentability resides in the limitation wherein each set of connections of the first, second and third sets of connections is a ball grid array, in combination with the other limitations of base Claim 20.

As to Claim 54, patentability resides in the limitation wherein the interposer has at least one electronic component on its surface, in combination with the other limitations of the claim.

- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 6. Claims 1-5, 7, 9, 10, 12, 15-23, 26-33, 35 and 54 in the instant allowed Application will be renumbered as Claims 1-28, respectively, for publication in the issued patent.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John B. Vigushin whose telephone number is 703-308-1205. The examiner can normally be reached on 8:30AM-5:00PM Mo-Fri.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David L. Talbott can be reached on 703-305-9883. The fax phone numbers

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for the organization where this application or proceeding is assigned are 703-308-7382 for regular communications and 703-308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

John B. Vigushin

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jbv March 20, 2003